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What is Claimed is:

- 1. A polymerizable system comprising:
 - (a) an organoborane;
 - (b) at least one polymerizable monomer; and
 - (c) a work-life extending agent according to the general formula:

$$R^{40} \xrightarrow{Q} Z^{1} - R^{42}$$

$$Z^{2} - R^{43}$$

wherein R^{40} is CH_2 = or alkenyl, Z^1 and Z^2 are independently O, N- R^{41} or S, and R^{41} , R^{42} and R^{43} are independently H, alkyl, aryl or cycloalkyl, provided that when Z^1 and Z^2 are O, R^{42} and R^{43} are independently alkyl, aryl or cycloalkyl.

- 2. The polymerizable system of claim 1 wherein R^{42} and R^{43} are butyl, and Z^1 and Z^2 are O.
- 3. The polymerizable system of claim 1 wherein R^{40} is vinyl.
- 4. A polymerizable system comprising:
 - (a) an organoborane;
 - (b) at least one polymerizable monomer; and
 - (c) at least 2.5 weight percent of itaconic acid, itaconic acid derivatives or combinations thereof.
- 5. The polymerizable system of claim 4, wherein the itaconic acid derivative comprises itaconic mono(butyl) ester.

- 6. The polymeriza
- 6. The polymerizable system of claim 4, wherein the itaconic acid derivative comprises itaconic di(butyl) ester.
- 7. The polymerizable system of claim 1 further comprising a decomplexer.
- 8. The polymerizable system of claim 7, wherein the organoborane is complexed with a complexing agent comprising a material selected from amines, amidines, hydroxides, alkoxides, and combinations thereof.
- 9. The polymerizable system of claim 1, wherein the at least one polymerizable monomer comprises a material selected from (meth)acrylates, (meth)acrylamides, and mixtures thereof.
- 10. The polymerizable system of claim 9, wherein the at least one polymerizable monomer comprises a material selected from (meth)acrylic esters of monohydric alcohols and (meth)acrylic acid esters of polyhydric alcohols.
- 11. The polymerizable system of claim 1 further comprising a vinyl aromatic compound according to general formula:

$$R^{30} \left(\begin{array}{c} (R^{34})_y \\ X - Ar \left(-CR^{31} = CR^{32}R^{33} \right)_x \\ \end{array} \right)_{r}$$

wherein:

n is an integer having a value of 1 or greater;
x is an integer having a value of 1 or greater;
y is an integer having a value of 0 or greater;
Ar is a substituted aryl group;
R³¹, R³² and R³³ are independently selected from the group consisting of hydrogen, alkyl, aryl and halogen;

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X is a divalent organic group or a covalent bond; and R³⁰ is an organic group; wherein a total molecular weight of each X plus R³⁰ is 100 or greater.

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12. The polymerizable system of claim 1, wherein the polymerizable system retains at least 85% or greater overlap shear strength after an extended open time.

The polymerizable system of claim 12 wherein the extended open time is between 13. about 7 minutes and 20 minutes.

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14. The polymerizable system of claim 1 further comprising a core-shell polymer.

15. The polymerizable system of claim 1 further comprising a reactive diluent.

16.

A polymerizable system comprising

(a) a first part comprising an organoborane; and

(b) a second part comprising a polymerizable monomer; wherein at least one of the first part or the second part further comprises a work-

life extending agent according to the general formula:

$$R^{40}$$
 $Z^{1}-R^{42}$
 $Z^{2}-R^{43}$

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wherein R⁴⁰ is CH₂= or alkenyl, Z¹ and Z² are independently O, N-R⁴¹ or S, and R⁴¹, R⁴² and R⁴³ are independently H, alkyl, aryl or cycloalkyl,

provided that when Z^1 and Z^2 are O, R^{42} and R^{43} are independently alkyl, aryl or cycloalkyl.

- 17. The polymerizable system of claim 16, wherein the work-life extending agent is included in the second part.
- 18. The polymerizable system of claim 16 wherein the organoborane is complexed with an amine.
- 19. The polymerizable system of claim 16, wherein the work-life extending agent is itaconic di(butyl) ester, and the itaconic di(butyl) ester is included in the second part.
 - 20. The polymerizable system of claim 16, wherein the organoborane is complexed with an amine and the second part further comprises a decomplexer.
 - 21. The polymerizable system of claim 16, wherein the first part and the second part are combined in a whole number ratio of about 1:10 to about 1:1.
 - 22. A polymerizable system comprising:
 - (a) an organoborane;
 - (b) at least one polymerizable monomer; and
 - (c) about 8 weight percent itaconic di(butyl) ester.
- 23. A method of increasing the work-life of a polymerizable system comprising an organoborane and a polymerizable monomer, the method comprising adding itaconic acid, itaconic acid derivatives, or a combination thereof in an amount sufficient to provide an initial concentration of the itaconic acid, one of itaconic acid derivatives, or a combination thereof of at least 2.5 weight percent of the polymerizable system.
- 30 24. A polymerizable system comprising:
 - (a) an organoborane;

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- (b) a complexing agent comprising a material selected from amines, amidines, hydroxides, alkoxides, and combinations thereof;
- (c) at least one polymerizable monomer; and
- (d) a work-life extending agent according to the general formula:

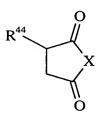
$$R^{40}$$
 $Z^{1}-R^{42}$
 $Z^{2}-R^{43}$

wherein R^{40} is CH_2 = or alkenyl, R^{42} is H or alkyl, R^{43} is H, and Z^1 and Z^2 are O and the ratio of amine-, amidine-, hydroxide- or alkoxide-reactive groups in the work-life extending agent to amine, amidine, hydroxide or alkoxide groups in the complexing agent(s) is over 3.0:1.0.

- 25. A polymerizable system comprising:
 - (a) an organoborane;
 - (b) at least one polymerizable monomer; and
 - (c) a work-life extending agent according to the general formula:

wherein R^{44} is CH_2 = or alkenyl and X is S or N- R^{50} , where R^{50} is hydrogen, alkyl, aryl or cycloalkyl.

- 26. A polymerizable system comprising:
 - (a) an organoborane;
 - (b) a complexing agent comprising a material selected from amines, amidines, hydroxides, alkoxides, and combinations thereof;
 - (c) at least one polymerizable monomer; and
 - (d) a work-life extending agent according to the general formula:



wherein R^{44} is CH_2 = or alkenyl and X is O and ratio of anhydride groups in the work-life extending agent to amine, amidine, hydroxide or alkoxide groups in the complexing agent(s) is over 3.0:1.0.